12

rocreat, oresor

CLAIMS:

- An air-bag unit adapted to be positioned on the floor pan of a motor vehicle in the foot-well to be located beneath the feet of an occupant of the vehicle, the air-bag unit having a substantially sealed damp-proof housing containing an air-bag, the housing having a substantially rigid upper cover, the unit being such that on inflation of the air-bag the cover of the housing is lifted, from (its) initial position to an elevated position, characterised in that the cover (8) of the housing (2) is secured to the base (4) of the housing (2), the cover (8) being adapted to be separated from the base (4) of the housing (2) on inflation of the air-bag (11).
- A unit according to Claim 1 characterised in that the cover (8) is sonic-2. welded to the base (4) of the housing (2).
- An air-bag unit adapted to be positioned on the floor pan of a motor 3. vehicle in the foot-well to be located beneath the feet of an occupant of the vehicle, the air-bag unit having a substantially sealed damp-proof housing containing an air-bag, the housing having a substantially rigid upper cover, the unit being such that on inflation of the air-bag the cover of the housing is lifted from (its) initial position to an elevated position, characterised in that the cover (8) is secured to a base part of the housing (2) by means of a deformable side wall (5).
- A unit according to Claim 3 characterised in that the side wall (5) is a 4. concertina style side wall (22).

.13

- 6. A unit according to any one of the preceding Claims characterised in that the air-bag (11) comprises two super-imposed layers of fabric, the layers being secured together to define a plurality of discrete cells (16).
- 7. A unit according to Claim 6 characterised in that the cells (16) comprise a plurality of substantially parallel cells which are substantially cylindrical when inflated.
- 8. A unit according to Claim 6 characterised in that the cells (16) comprise a plurality of cells configured so that on inflation of the cells one end of each cell has a greater diameter than the other end of the cell.

ronrams, oseos

- 9. A unit according to Claim 8 characterised in that the cells (16) are substantially triangular.
- 10. A unit according to any one of the preceding Claims characterised in that the air-bag (11) is provided with a gas supply tube (13) adapted to be connected to a gas generator (14).
- 11. A unit according to Claim 10 in combination with a gas generator connected to the gas supply tube, characterised in that the gas generator (14) being associated with a sensor adapted to respond to an impact.

AND THE SECUTION

2 9 -08- 2001.

14

- 13. A unit according to Claim 12 characterised in that electrical connection means are provided to enable means supplying a signal adapted to initiate inflation of the air-bag (11) to be connected to the gas generator (14).
 - 14. A unit according to any one of the preceding Claims characterised in that the unit (1) has a substantially rigid base (4).
 - 15. A unit according to Claim 14 characterised in that the base (4) has a deformable peripheral region (32), a terminal lip (33) of the peripheral region being secured to the cover (8).

ronest.carc